

WHAT IS CLAIMED IS:

1. A power switching device comprising:

a base with input wires and output wires both electrically connected to the base
and the output wire being opposite to the input wires;

multiple conducting tubes electrically connected to and orthogonally mounted on
the base, the conducting tubes being classified into a first group of
conducting tubes and a last group of conducting tubes, the first group of
conducting tubes having a height different from that of the last group of
conducting tubes;

a first conducting plate having holes defined to allow an extension of the last
group and screw holes defined to correspond to and allow a bottom face of
each of the screw holes to abut free ends of the first group of conducting tubes
such that screws are able to threadingly extend from the screw holes and into
the free ends of the first group of conducting tubes to secure engagement
between the first conducting plate and the first group of conducting tubes;
and

a last conducting plate having last screw holes defined to correspond to and allow
a bottom face of each of the last screw holes to abut free ends of the last group
of conducting tubes such that last screws are able to threadingly extend from
the last screw holes and into the free ends of the last group of conducting
tubes to secure engagement between the last conducting plate and the last
group of conducting tubes, and

whereby power direction is changeable by selecting a specific input wire and
sequentially a specific output wire is determined.

2. The power switching device as claimed in Claim 1, wherein an insulating layer is coated to an outside of each of the conducting tubes.
3. The power switching device as claimed in Claim 1, wherein an insulating plate is added to the bottom face of each of the first and second conducting plates.
4. The power switching device as claimed in Claim 2, wherein an insulating plate is added to the bottom face of each of the first and second conducting plates.
5. The power switching device as claimed in Claim 1 further comprising a third group of conducting tubes electrically connected to and orthogonally mounted on the base and a third conducting plate sandwiched between the first and the last conducting plates and having third holes defined to allow an extension of the last group of conducting tubes and third screw holes defined to correspond to and abut free ends of the third group of conducting tubes such that third screws are able to threadingly extend from the third screw holes and into the free ends of the third group of conducting tubes to secure engagement between the third group of conducting tubes and the third conducting plate, wherein the third group of conducting tubes has a height different from the first and the second groups of conducting tubes.
6. The power switching device as claimed in Claim 5, wherein an insulating layer is coated to an outside of the third group of conducting tubes.
7. The power switching device as claimed in Claim 5, wherein an insulating plate is added to the bottom face of the third conducting plate.
8. The power switching device as claimed in Claim 6, wherein an insulating plate is added to the bottom face of the third conducting plate.

9. The power switching device as claimed in Claim 1, wherein a securing bolt is provided to secure engagement between the conducting tube and the conducting plate.
10. The power switching device as claimed in Claim 2, wherein a securing bolt is provided to secure engagement between the conducting tube and the conducting plate.
11. The power switching device as claimed in Claim 5, wherein a securing bolt is provided to secure engagement between the conducting tube and the conducting plate.
12. The power switching device as claimed in Claim 6, wherein a securing bolt is provided to secure engagement between the conducting tube and the conducting plate.
13. The power switching device as claimed in Claim 7, wherein a securing bolt is provided to secure engagement between the conducting tube and the conducting plate.
14. The power switching device as claimed in Claim 8, wherein a securing bolt is provided to secure engagement between the conducting tube and the conducting plate.
15. The power switching device as claimed in Claim 11, wherein each conducting tube has a threaded end formed on a free end of the conducting tube to correspond to a threaded recess defined in a bottom end of the securing bolt so that an electrical connection between the conducting bolt and the conducting plate is completed.
16. The power switching device as claimed in Claim 12, wherein each conducting tube has a threaded end formed on a free end of the conducting tube to correspond to a threaded recess defined in a bottom end of the securing bolt so that an

electrical connection between the conducting bolt and the conducting plate is completed.

17. The power switching device as claimed in Claim 13, wherein each conducting tube has a threaded end formed on a free end of the conducting tube to correspond to a threaded recess defined in a bottom end of the securing bolt so that an electrical connection between the conducting bolt and the conducting plate is completed.
18. The power switching device as claimed in Claim 14, wherein each conducting tube has a threaded end formed on a free end of the conducting tube to correspond to a threaded recess defined in a bottom end of the securing bolt so that an electrical connection between the conducting bolt and the conducting plate is completed.